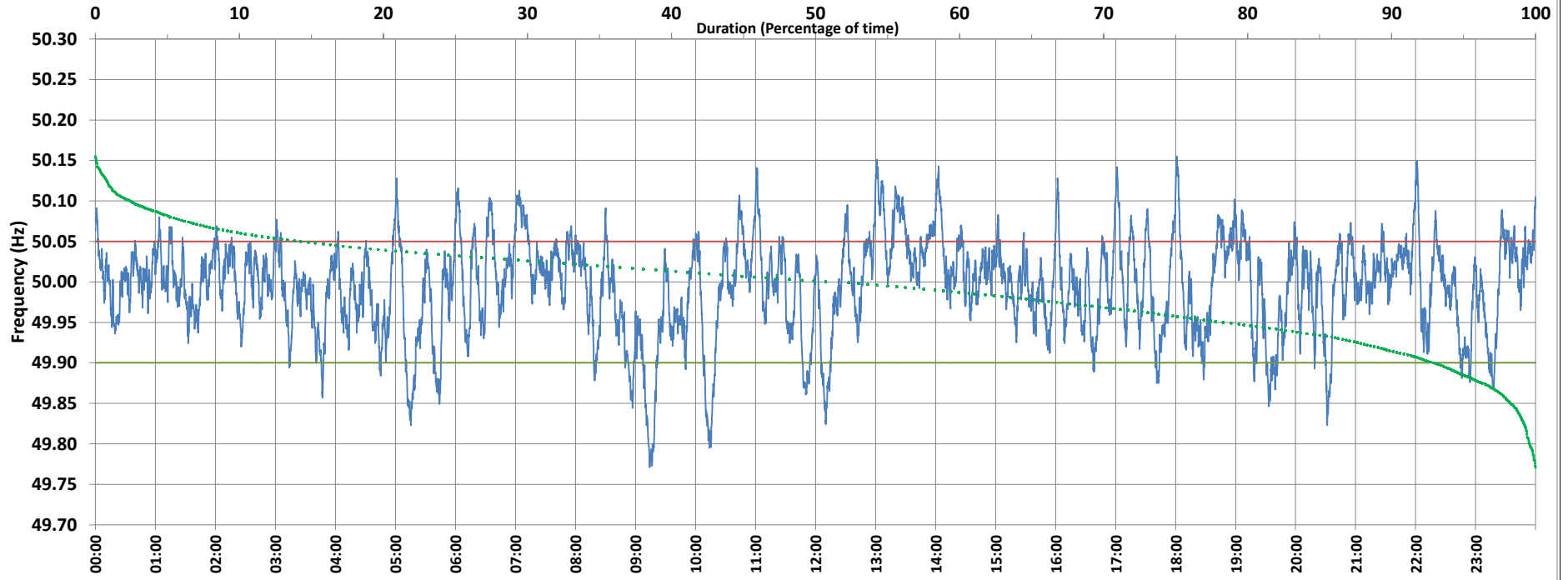


POWER SYSTEM OPERATION CORPORATION LIMITED

NATIONAL LOAD DESPATCH CENTRE, NEW DELHI



Frequency profile for 11-Dec-2020 (Friday)



| | | | | | | | | | | | | | | | | | | |
|-------|--------|--------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-------------|------------|-------|--------|--------|-------|--------|-------------|-------------|
| <49.7 | <49.90 | <49.97 | 49.7-49.8 | 49.8-49.9 | 49.9-50.0 | 50.0-50.1 | 50.1-50.2 | 49.90-50.05 | 49.7-50.2 | 49.97-50.03 | 50.05-50.1 | >50 | >50.03 | >50.05 | >50.2 | <49.95 | 49.95-50.05 | 49.90-49.95 |
| 0.00 | 6.91 | 30.28 | 0.41 | 6.50 | 40.80 | 49.80 | 2.49 | 78.85 | 100.00 | 42.93 | 12.40 | 50.69 | 26.79 | 14.24 | 0.00 | 21.15 | 64.62 | 14.24 |

| | | | | |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|
| Average Frequency : 49.994 | Frequency Variation Index : 0.0348 | Standard Deviation : 0.0588 | Mileage: 51.5 | FDI: 21.1 |
|----------------------------|------------------------------------|-----------------------------|---------------|-----------|

| Instantaneous Frequency | | |
|-------------------------|--------|----------|
| Max | 50.155 | 18:01:00 |
| Min | 49.771 | 9:14:10 |

| 15 minute Average Frequency | | |
|-----------------------------|--------|----------|
| Max | 50.083 | 13:30:00 |
| Min | 49.884 | 9:15:00 |

| No. of excursions | |
|-------------------|-----|
| above 50.03 Hz | 163 |
| below 49.97 Hz | 116 |
| above 50.00 Hz | 149 |
| below 50.00 Hz | 144 |

| Average time freq per excursion remains | |
|---|---------|
| below 49.97 | 0:03:46 |
| above 50.03 | 0:02:22 |

| | |
|---|---------|
| No. of hours freq outside 49.9-50.05 Hz | 5:04:30 |
|---|---------|

Source : 400KV KALWA:Frequency 10 Sec. (8640 samples)